

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

DATE MAILED: 02/27/2003

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/873,218	06/05/2001	Kenji Matsumoto	Q64809	4028
7:	590 02/27/2003			
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC			EXAMINER	
	nsylvania Avenue, N.W. on, DC 20037-3202		NGUYEN, TUAN M	
			ART UNIT	PAPER NUMBER
			2828	

Please find below and/or attached an Office communication concerning this application or proceeding.

	_				
	Application No.	Applicant(s)			
	09/873,218	MATSUMOTO, KENJI			
• Office Action Summary	Examiner	Art Unit			
	Tuan M Nguyen	2828			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a bly within the statutory minimum of thin will apply and will expire SIX (6) MOI te, cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 10	<u>December 2002</u> .				
,	his action is non-final.				
 Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims 					
4) Claim(s) 1-5 is/are pending in the application					
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.		2			
6)⊠ Claim(s) <u>1-5</u> is/are rejected.		Pane Is			
7) Claim(s) is/are objected to.		PAUL IP			
8) Claim(s) are subject to restriction and/o	or election requirement.	SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800			
9)☐ The specification is objected to by the Examine	er.				
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by	the Examiner.			
Applicant may not request that any objection to the	ne drawing(s) be held in abey	rance. See 37 CFR 1.85(a).			
11)☐ The proposed drawing correction filed on	_ is: a)∏ approved b)∏ o	disapproved by the Examiner.			
If approved, corrected drawings are required in re	ply to this Office action.				
12) The oath or declaration is objected to by the Ex	xaminer.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:					
1. Certified copies of the priority documen	ts have been received.	•			
2. Certified copies of the priority documen	2. Certified copies of the priority documents have been received in Application No				
 3. Copies of the certified copies of the price application from the International But * See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).	_			
14) ☐ Acknowledgment is made of a claim for domest					
a) The translation of the foreign language pro	ovisional application has b	een received.			
Attachment(s)	and proteinly united to to to to.	. 33			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)			



Application/Control Number: 09/873,218

Art Unit: 2828

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Karapiperis et al ('564).

With respect to claims 1-5, Karapiperis et al discloses an active zone (12) and a plurality of layers on parallel with activation layers, a first groove (76) is formed penetrating through at least some of plurality of layers, the second groove (77) extending from the first groove to predetermined position from both side of the first groove and the first groove filled up with material different than the specified layer, and another layer is formed so as to contact on surface of the first groove, note col. 1 line 30 to col. 15 line 3, see figures 1 and 5-6.

Response to Arguments

2. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

Citation Of The Pertinent References

3. The prior art made of record and not relied upon us considered pertinent to applicant's disclose.

The patent to Horie et al (US patent 5,920,767) discloses method of forming a groove in a semiconductor laser diode and a semiconductor laser diode.



Application/Control Number: 09/873,218

Art Unit: 2828

The patent to Bridges et al (US patent 4,764,246) discloses buried undercut mesa like waveguide and method of making same.

The patent to Bridges et al (US patent 4,725,112) discloses buried undercut mesa like waveguide.

The patent to Renner (US patent 4,662,988) discloses semiconductor device and their fabrication.

Communication Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan M Nguyen whose telephone number is (703) 306-0247. The examiner can normally be reached on 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9318 for regular communications and (703) 872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Paul Ip

Art unit 2828

TMN

February 22, 2003